



INTEROFFICE CORRESPONDENCE

FILE

DATE

July 2 1992

TO

C B Gee Remediation Programs Bldg 080 X8550

FROM

M C Burmeister Remediation Programs Bldg T891A X5891

C D Cowdery Environmental Research and Technology Bidg 051 273-6030

SUBJECT

OU 1 TREATMENT BUILDING PU EFFLUENT TEST RESULTS MBU-028-92

The following is a summary and explanation of the Pu 239 results on the effluent tank water collected at the 891 Treatment System. Results on testing performed by AEB Consultants Inc. showed Pu 239 levels of 1 03 and 0 801 pCi/L for effluent tanks 206 and 207 respectively (refer to attached sample analyses FT00038ITU1 and FT00042ITU1). The uncertainty reported is the relative percentage of the standard deviation (sigma) to the observed value in other words.

/ uncertainty = Sigma/Observed Activity X 100 /

The 2 sigma error is twice the standard deviation. It is <u>not</u> a percentage. A mistake was made in AEB's program that calculates 2 sigma from the percent uncertainty. The corrected 2 sigma values for Pu 239 are 0 1265 pC/l and 0 0679 pC/l for TK 206 and TK 207 respectively. Also note that although AEB's analysis only shows Pu 239 the analysis includes Pu 240 since both isotopes show up at the same energy.

As we discussed several days ago the original values for Pu 239/240 (1 03 and 0 801 pCVL for effluent tanks 206 and 207) obtained by AEB were suspect. Influent samples have never reflected Pu 239/240 values at these elevated levels. At our request. AEB analyzed the remaining sample volume. The second analysis found no traces of Pu 239/240.

TK 206 was sampled and analyzed by 881 Laboratory The results are attached (Radiochemistry Report Isotopic Analysis by Alpha Spectrometry Lab # E92 1366 dated June 22 1992) 881 detected Pu 239/240 at 0 01 pCi/l which is below the minimum detectable activity (MDA)

Based on the reanalysis by AEB and the results of 881 Lab's analysis we can be reasonably certain that the values reported by the 881 Laboratory are more representative of the actual mean activity in the tanks. The discharge criteria for surface water standards is 0.05 pC/l. TKS 206 and 207 meet the required discharge standard. It should be noted that the IRAP discharge standard for Pu 239/240 is 15 pC/l.

JRC dmf

Attachment As Stated (3)

CC

J R Cirillo

F D Hobbs

ADMIN RECORD

EG&G ROCKY FLATS INC ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402-0464 (303) 966 7000

A 0001-000974

RADIOCHEMISTRY REPORT
ISOTOPIC ANALYSIS BY ALPHA SPECTROMETRY

Lab Number E92-1366 Report Date June 22 1992

Method summary

Depending upon the sample matrix, pretreatment of the sample (as determined by the responsible chemist) may be required to obtain an aqueous solution which is necessary to perform the isotopic separation chemistry Plutonium (Pu-239,240), uranium (U-233,234, U-235 and U-238) and americium (Am-241) isotopes are separated from the prepared sample using ion-exchange and solvent extraction techniques, followed by electrodeposition onto counting planchets, and analyzed by alpha spectrometry Each sample is spiked with a Chemistry Standards Laboratory (CSL) certified tracer of an isotope (Pu-242, U-232 or Cm-244) which behaves chemically identical to the analyte (Pu-239 U-234,-235,-238 or Am-241) and whose alpha energy can be isolated with no other alpha interferences Procedure L-6235, Isolation of Plutonium, Americium and Uranium From Aqueous Samples* is used to perform the isotopic separations

The areas of the tracer and analyte peaks or regions of interest are ratioed and the analyte activity in disintegrations per minute (dpm) is solved from the proportion. All analyte and tracer peak areas in counts per minute (cpm) are corrected for the detector background cpm in the particular region of interest In addition since the standard tracers are not isotopically pure and may contain small quantities of the analyte, a preparation blank is required with each batch of samples for each analyte. The blank consists of the tracer aliquot only and from it the amount of interferant is quantitated. The sample's analyte activity in dpm is then corrected for the preparation blank and the result in pico-curies per liter or per gram (pCi/l or Pci/g) is calculated using the blank corrected dpm and the sample volume or weight analyzed

Quality Control Summary

The samples are analyzed in batches where each batch consists of a maximum of 9 samples a preparation blank, a CSL certified control and a laboratory duplicate (at least 10 percent of the samples are analyzed in duplicate). Again each of these is spiked with a known quantity of standard tracer. The batch in which a sample was analyzed is denoted by the Batch #" and all quality control samples are traceable to any particular sample by the QC batch number

The MDA (minimum detectable activity) for this analytical method is dependent on the uncertainty of the preparation blank activity detector efficiency, chemical recovery and volume or weight of sample analyzed. The chemical recovery represents the percentage of standard tracer that was recoverable through the sample preparation process.

The result uncertainty is calculated by propagation of the uncertainties due to counting statistics of the sample and of the preparation blank. The uncertainties are stated at the two sigma level

Lab Number E92-1366 Report Date June 22, 1992

Significant Figures

The results and uncertainties are reported in pCi/I or pCi/g as follows

Sample Raw Result	Reported Sample Result and Uncertainty
<1 0 1 0 to 9 9 10 0 to 99 9 100 0 to 999 9 1000 to 9999	nearest hundredth digit (0 01) nearest tenth digit (0 1) nearest l's digit (whole number) nearest l0's digit nearest 100's digit

Report Format Description

The sample isotopic activities and uncertainties are reported in the "Isotopic Analysis Results" section of the report. The result uncertainty in pCi/l or pCi/g is designated as the "+/-" value and represents the uncertainty at the 2 sigma level. The letter "D" prefix indicates a field duplicate sample (a sample which is taken in duplicate while in the field). This differs from a laboratory duplicate which is a sample analyzed in duplicate.

The associated QA/QC results for the CSL controls analyzed in each respective batch number are reported in the "Quality Assurance/Quality Control Data section of the report. The "Analysis Date" refers to the date the analysis was completed

Definition of Data Qualifiers

There are no data qualifier symbols defined for Radiochemistry All qualified data are explained in the narrative section of this report Qualified results may be flagged with "*" followed by an explanation

Exceptions or Deviations to Base Methods

Depending upon the sample matrix and if there are solids or particulates present, deviations from procedure L-6235 may be required. These deviations are detailed in a procedure filed with the raw data

RADIOCHEMISTRY REPORT ISOTOPIC ANALYSIS BY ALPHA SPECTROMETRY

N K Harward

Lab Number E92-1366 Report Date June 22, 1992

Narrative for E92-1365

The 891 tank sample was analyzed for americium, plutonium and uranium sample was analyzed in duplicate The

The first run of this sample batch resulted in poor recoveries due to technician error. The samples were rerun under scrupulous eyes. No problems existed and all QA/QC passed

Chemist Approval

RADIOCHEMISTRY REPORT
ISOTOPIC ANALYSIS BY ALPHA SPECTROMETRY

Lab Number E92-1366 Report Date June 22, 1992

Isotopic Analysis Results Sample Date 06/05/92

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